

<b>Notice of Allowability</b>	Application No.	Applicant(s)
	10/616,546	PEKER ET AL.
	Examiner	Art Unit
	Allen Wong	2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTO-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to amendment filed 1/14/08.
2.  The allowed claim(s) is/are 1,2,5-19, renumbered as claims 1-17.
3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All
  - b)  Some\*
  - c)  None
 of the:
  1.  Certified copies of the priority documents have been received.
  2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

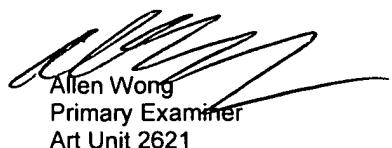
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of
 Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.



Allen Wong  
Primary Examiner  
Art Unit 2621

**DETAILED ACTION**

**Examiner's Amendment**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Clifton Mueller on February 14, 2008.

The application has been amended as follows:

In the claims:

Claim 8, line 1, "claim 3" has been changed to -- claim 1 --.

Claim 9, line 1, "claim 3" has been changed to -- claim 1 --.

***Allowable Subject Matter***

1. Claims 1, 2 and 5-19 are allowed.
2. The following is an examiner's statement of reasons for allowance: The prior art does not specifically disclose the combination of limitations of claim 1: a method for playing frames of a video adaptively, comprising the steps of: measuring a spatial frequency of pixel within frames of the video, wherein the spatial frequency is measured from discrete cosine transform coefficients of the pixels in the frames, and wherein basis functions of the discrete cosine transformation are in a form  $\cos(\pi k_x (2x))$ .

$+ 1) / 2N) \times \cos(\pi k_y (2y + 1) / 2N) = \cos((2\pi k_x x / 2N) + (2\pi k / 4N)) \times \cos((2\pi k_y y / 2N) + 2\pi k / 4N)$ ,

where  $k_x$  is a frequency  $f_x$  in an  $x$  direction and  $k_y$  is a frequency  $f_y$  in a  $y$  direction in the frame represented as

$\cos((2\pi f_x x / N) + (2\pi f_y y / N))$ ,

where  $N$  is 8 for DCT macro-blocks, and each DCT basis is a superimposition of two two dimensional sinusoids; measuring a temporal velocity of corresponding pixels between frames of the video, wherein the temporal velocity is measured from motion vectors of corresponding pixels between the frames; multiplying the spatial frequency by the temporal velocity to obtain a measure of visual complexity of the frames of the video; and playing the frames of the video at a frame rate that corresponds to the measure of visual complexity.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen Wong whose telephone number is (571) 272-7341. The examiner can normally be reached on Mondays to Thursdays from 8am-6pm Flextime.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John W. Miller can be reached on (571) 272-7353. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Allen Wong  
Primary Examiner  
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AW  
2/14/08